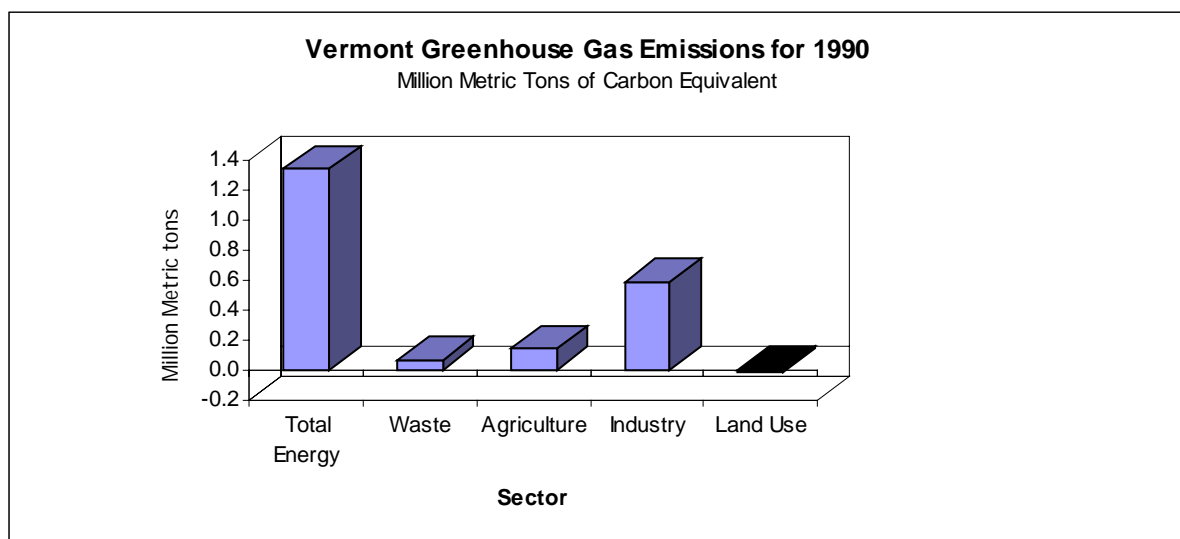


## VERMONT GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



This report provides a detailed inventory of greenhouse gas emissions and sinks for Vermont in 1990. Emissions were estimated using methods from EPA's 1992 guidance document ***State Workbook: Methodologies for Estimating Greenhouse Gas Emissions***. In 1990, Vermont emitted 2.1 million metric tons of carbon equivalent (MMTCE). Vermont estimated emissions of 1.1 MMTCE from biomass fuels and from sources not covered in the workbook methodology.<sup>1</sup> Emissions from these sources are not included in the reported total or the table below.

The principal greenhouse gas was carbon dioxide, comprising 4.9 million metric tons. Other emissions included methane with 0.04 million metric tons (0.2 MMTCE), 15.5 metric tons of nitrous oxide (0.001 MMTCE), and 185 metric tons of perfluorocarbons (PFCs) (0.6 MMTCE).

The major source of carbon dioxide emissions was fossil fuel combustion (100%), the majority of which is due to transportation petroleum. Carbon dioxide sinks (timber stock and other forest resources) offset nearly 2% of the total carbon dioxide emissions. Sources of methane emissions were domesticated animals (65%), landfills (33%) and manure management (1.3%). Nitrous oxide emissions were attributable to fertilizer use.

Vermont emissions in 1990 were 3.7 MTCE per capita, compared to 1990 U.S. emissions of 6.4 MTCE per capita.

---

<sup>1</sup> These emissions include carbon dioxide, methane, and other emissions from additional fossil fuels, ozone depleting compounds, and deer.

### Vermont Greenhouse Gas Emissions for 1990

BY SECTOR	CO <sub>2</sub> (MMTCE)	Methane (MMTCE)	Nitrous Oxide (MMTCE)	PFCs (MMTCE)	Total GHG Emissions (MMTCE)
Energy - Residential	0.3	*	*	*	1.3
Energy - Commercial	0.1	*	*	*	0.5
Energy - Industrial	0.1	*	*	*	0.4
Energy - Transport	0.8	*	*	*	3.1
Energy - Utility	0.02	*	*	*	0.1
<b>Total Energy</b>	<b>1.3</b>	*	*	*	<b>1.3</b>
<b>Waste</b>	*	<b>0.1</b>	*	*	<b>0.1</b>
<b>Agriculture</b>	*	<b>0.1</b>	<b>0.001</b>	*	<b>0.1</b>
<b>Industry</b>	*	*	*	<b>0.6</b>	<b>0.6</b>
<b>Land Use</b>	<b>-0.02</b>	*	*	*	<b>-0.02</b>
<b>Total</b>	<b>1.3</b>	<b>0.2</b>	<b>0.001</b>	<b>0.6</b>	<b>2.1</b>

All emissions are reported in million metric tons of carbon equivalent (MMTCE).

An asterisk ( \* ) indicates that emissions of the gas from this sector were zero, insignificant, or not reported.

Emissions from biofuel combustion are excluded.